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OIPE

RAW SEQUENCE LISTING

DATE: 10/29/2001

PATENT APPLICATION: US/09/800,198

TIME: 15:42:22

Input Set : A:\Cura-191.app

Output Set: N:\CRF3\10292001\I800198.raw

ENTERED

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3 <110> APPLICANT: Vernet, Cornie AM
4   Fernandes, Elma
5   Shimkets, Richard A
6   Herrmann, John L
7   Majumder, Kumud
8   Mishra, Vishna
9   Mezes, Peter S
10  Rastelli, Luca
12 <120> TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
14 <130> FILE REFERENCE: 15966-697
16 <140> CURRENT APPLICATION NUMBER: 09/800198
17 <141> CURRENT FILING DATE: 2001-03-05
19 <150> PRIOR APPLICATION NUMBER: 60/186,596
20 <151> PRIOR FILING DATE: 2000-03-03
22 <160> NUMBER OF SEQ ID NOS: 98
24 <170> SOFTWARE: PatentIn Ver. 2.1
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 771
28 <212> TYPE: DNA
29 <213> ORGANISM: Homo sapiens
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33 <222> LOCATION: (438)..(752)
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40 attggcagcc ttagaactag tgggaaggcg ggtgcgcgaa gtcgaggggc ggagagaggg 180
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48 tcgtgtcaca tccatatgac acttggaatg tgacagggca ggaatgtgatc tttggctgtg 420
50 aagtgtttgc ctacccc atg gcc tcc atc gag tgg agg aag gat ggc ttg 470
51 Met Ala Ser Ile Glu Trp Arg Lys Asp Gly Leu
52 1 5 10
54 gac atc cag ctg cca ggg gat gac ccc cac atc tct gtg cag ttt agg 518
55 Asp Ile Gln Leu Pro Gly Asp Asp Pro His Ile Ser Val Gln Phe Arg
56 15 20 25
58 ggt gga ccc cag agg ttt gag gtg act ggc tgg ctg cag atc cag gct 566
59 Gly Gly Pro Gln Arg Phe Glu Val Thr Gly Trp Leu Gln Ile Gln Ala
60 30 35 40
62 gtg cgt ccc agt gat gag ggc act tac cgc tgc ctt gcc cgc aat gcc 614
63 Val Arg Pro Ser Asp Glu Gly Thr Tyr Arg Cys Leu Ala Arg Asn Ala
64 45 50 55
66 ctg ggt caa gtg gag gcc cct gct agc ttg aca gtg ctc aca cct gac 662
67 Leu Gly Gln Val Glu Ala Pro Ala Ser Leu Thr Val Leu Thr Pro Asp
68 60 65 70 75
70 cag ctg aac tct aca ggc atc ccc cag ctg cga tca cta aac ctg gtt 710

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71 Gln Leu Asn Ser Thr Gly Ile Pro Gln Leu Arg Ser Leu Asn Leu Val
72                80                85                90
74 cct gag gag gag gct gag agt gaa gag aat gac gat tac tac      752
75 Pro Glu Glu Glu Ala Glu Ser Glu Glu Asn Asp Asp Tyr Tyr
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82 <211> LENGTH: 105
83 <212> TYPE: PRT
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88 1          5          10          15
90 Gly Asp Asp Pro His Ile Ser Val Gln Phe Arg Gly Gly Pro Gln Arg
91                20                25                30
93 Phe Glu Val Thr Gly Trp Leu Gln Ile Gln Ala Val Arg Pro Ser Asp
94                35                40                45
96 Glu Gly Thr Tyr Arg Cys Leu Ala Arg Asn Ala Leu Gly Gln Val Glu
97                50                55                60
99 Ala Pro Ala Ser Leu Thr Val Leu Thr Pro Asp Gln Leu Asn Ser Thr
100 65          70          75          80
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103                85                90                95
105 Glu Ser Glu Glu Asn Asp Asp Tyr Tyr
106                100                105
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111 <211> LENGTH: 5502
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124 gcccgggcag gtcattaatt ccatttcttt ttagagtatc acagctttct ccttcactga 180
126 ccaccctttg cttcctgtca gaaagccctg gacagaactc tctgtgggat tctgcccag 240
128 tttctgagat atcgccctca ttgtcctggc tgggctgtcg ggtctgcccg ttttacagat 300
130 gggcaaaactg gagtgggaag tatccgggtg gcttcctcag gcctgcagct ggtggagcag 360
132 ctactgaaac aatcaggagc ccagaagctt tgaagtcaca agaagagaag actcccaga 419
134 atg cag tgt gat gtt ggt gat gga cgc ctg ttt cgc ctt tca ctt aaa 467
135 Met Gln Cys Asp Val Gly Asp Gly Arg Leu Phe Arg Leu Ser Leu Lys
136 1          5          10          15
138 cgt gcc ctt tcc agc tgc cct gac ctc ttt ggg ctt tcc agc cgc aac 515
139 Arg Ala Leu Ser Ser Cys Pro Asp Leu Phe Gly Leu Ser Ser Arg Asn
140                20                25                30
142 gag ctg ctg gcc tcc tgc ggg aag aag ttc tgc agc cga ggg agc cgg 563
143 Glu Leu Leu Ala Ser Cys Gly Lys Lys Phe Cys Ser Arg Gly Ser Arg
144                35                40                45

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 146 | tgc | gtg | ctc | agc | agg | aag | aca | ggg | gag | ccc | gaa | tgc | cag | tgc | ctg | gag | 611 |
| 147 | Cys | Val | Leu | Ser | Arg | Lys | Thr | Gly | Glu | Pro | Glu | Cys | Gln | Cys | Leu | Glu | |
| 148 | | 50 | | | | | 55 | | | | 60 | | | | | | |
| 150 | gca | tgc | agg | ccc | agc | tac | gtg | cct | gtg | tgc | ggc | tct | gat | ggg | agg | ttt | 659 |
| 151 | Ala | Cys | Arg | Pro | Ser | Tyr | Val | Pro | Val | Cys | Gly | Ser | Asp | Gly | Arg | Phe | |
| 152 | 65 | | | | | 70 | | | | 75 | | | | | | 80 | |
| 154 | tat | gaa | aac | cac | tgt | aag | ctc | cac | cgt | gct | gct | tgc | ctc | ctg | gga | aag | 707 |
| 155 | Tyr | Glu | Asn | His | Cys | Lys | Leu | His | Arg | Ala | Ala | Cys | Leu | Leu | Gly | Lys | |
| 156 | | | | 85 | | | | | 90 | | | | | 95 | | | |
| 158 | agg | atc | acc | gtc | atc | cac | agc | aag | gac | tgt | ttc | ctc | aaa | ggt | gac | acg | 755 |
| 159 | Arg | Ile | Thr | Val | Ile | His | Ser | Lys | Asp | Cys | Phe | Leu | Lys | Gly | Asp | Thr | |
| 160 | | | | 100 | | | | | 105 | | | | | 110 | | | |
| 162 | tgc | acc | atg | gcc | ggc | tac | gcc | cgc | ttg | aag | aat | gtc | ctt | ctg | gca | ctc | 803 |
| 163 | Cys | Thr | Met | Ala | Gly | Tyr | Ala | Arg | Leu | Lys | Asn | Val | Leu | Leu | Ala | Leu | |
| 164 | | | 115 | | | | 120 | | | | | 125 | | | | | |
| 166 | cag | acc | cgt | ctg | cag | cca | ctc | caa | gaa | gga | gac | agc | aga | caa | gac | cct | 851 |
| 167 | Gln | Thr | Arg | Leu | Gln | Pro | Leu | Gln | Glu | Gly | Asp | Ser | Arg | Gln | Asp | Pro | |
| 168 | | 130 | | | | | 135 | | | | | 140 | | | | | |
| 170 | gcc | tcc | cag | aag | cgc | ctc | ctg | gtg | gaa | tct | ctg | ttc | agg | gac | tta | gat | 899 |
| 171 | Ala | Ser | Gln | Lys | Arg | Leu | Leu | Val | Glu | Ser | Leu | Phe | Arg | Asp | Leu | Asp | |
| 172 | 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| 174 | gca | gat | ggc | aat | ggc | cac | ctc | agc | agc | tcc | gaa | ctg | gct | cag | cat | gtg | 947 |
| 175 | Ala | Asp | Gly | Asn | Gly | His | Leu | Ser | Ser | Ser | Glu | Leu | Ala | Gln | His | Val | |
| 176 | | | | 165 | | | | | | 170 | | | | | 175 | | |
| 178 | ctg | aag | aag | cag | gac | ctg | gat | gaa | gac | tta | ctt | ggt | tgc | tca | cca | ggt | 995 |
| 179 | Leu | Lys | Lys | Gln | Asp | Leu | Asp | Glu | Asp | Leu | Leu | Gly | Cys | Ser | Pro | Gly | |
| 180 | | | | 180 | | | | | 185 | | | | | 190 | | | |
| 182 | gac | ctc | ctc | cga | ttt | gac | gat | tac | aac | agt | gac | agc | tcc | ctg | acc | ctc | 1043 |
| 183 | Asp | Leu | Leu | Arg | Phe | Asp | Asp | Tyr | Asn | Ser | Asp | Ser | Ser | Leu | Thr | Leu | |
| 184 | | | 195 | | | | | 200 | | | | | 205 | | | | |
| 186 | cgc | gag | ttc | tac | atg | gcc | ttc | caa | gtg | gtt | cag | ctc | agc | ctc | gcc | ccc | 1091 |
| 187 | Arg | Glu | Phe | Tyr | Met | Ala | Phe | Gln | Val | Val | Gln | Leu | Ser | Leu | Ala | Pro | |
| 188 | | 210 | | | | | 215 | | | | | 220 | | | | | |
| 190 | gag | gac | agg | gtc | agt | gtg | acc | aca | gtg | acc | gtg | ggg | ctg | agc | aca | gtg | 1139 |
| 191 | Glu | Asp | Arg | Val | Ser | Val | Thr | Thr | Val | Thr | Val | Gly | Leu | Ser | Thr | Val | |
| 192 | 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| 194 | ctg | acc | tgc | gcc | gtc | cat | gga | gac | ctg | agg | cca | cca | atc | atc | tgg | aag | 1187 |
| 195 | Leu | Thr | Cys | Ala | Val | His | Gly | Asp | Leu | Arg | Pro | Pro | Ile | Ile | Trp | Lys | |
| 196 | | | | 245 | | | | | 250 | | | | | | 255 | | |
| 198 | cgc | aac | ggg | ctc | acc | ctg | aac | ttc | ctg | gac | ttg | gaa | gac | atc | aat | gac | 1235 |
| 199 | Arg | Asn | Gly | Leu | Thr | Leu | Asn | Phe | Leu | Asp | Leu | Glu | Asp | Ile | Asn | Asp | |
| 200 | | | | 260 | | | | | 265 | | | | | 270 | | | |
| 202 | ttt | gga | gag | gat | gat | tcc | ctg | tac | atc | acc | aag | gtg | acc | acc | atc | cac | 1283 |
| 203 | Phe | Gly | Glu | Asp | Asp | Ser | Leu | Tyr | Ile | Thr | Lys | Val | Thr | Thr | Ile | His | |
| 204 | | | 275 | | | | | 280 | | | | | | 285 | | | |
| 206 | atg | ggc | aat | tac | acc | tgc | cat | gct | tcc | ggc | cac | gag | cag | ctg | ttc | cag | 1331 |
| 207 | Met | Gly | Asn | Tyr | Thr | Cys | His | Ala | Ser | Gly | His | Glu | Gln | Leu | Phe | Gln | |
| 208 | | 290 | | | | | 295 | | | | | 300 | | | | | |
| 210 | acc | cac | gtc | ctg | cag | gtg | aat | gtg | ccg | cca | gtc | atc | cgt | gtc | tat | cca | 1379 |

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| 211 | Thr | His | Val | Leu | Gln | Val | Asn | Val | Pro | Pro | Val | Ile | Arg | Val | Tyr | Pro | |
| 212 | 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| 214 | gag | agc | cag | gca | cag | gag | cct | gga | gtg | gca | gcc | agc | cta | aga | tgc | cat | 1427 |
| 215 | Glu | Ser | Gln | Ala | Gln | Glu | Pro | Gly | Val | Ala | Ala | Ser | Leu | Arg | Cys | His | |
| 216 | | | | | 325 | | | | | 330 | | | | | 335 | | |
| 218 | gct | gag | ggc | att | ccc | atg | ccc | aga | atc | act | tgg | ctg | aaa | aac | ggc | gtg | 1475 |
| 219 | Ala | Glu | Gly | Ile | Pro | Met | Pro | Arg | Ile | Thr | Trp | Leu | Lys | Asn | Gly | Val | |
| 220 | | | | 340 | | | | | 345 | | | | | 350 | | | |
| 222 | gat | gtc | tca | act | cag | atg | tcc | aaa | cag | ctc | tcc | ctt | tta | gcc | aat | ggg | 1523 |
| 223 | Asp | Val | Ser | Thr | Gln | Met | Ser | Lys | Gln | Leu | Ser | Leu | Leu | Ala | Asn | Gly | |
| 224 | | | 355 | | | | | 360 | | | | | 365 | | | | |
| 226 | agc | gaa | ctc | cac | atc | agc | agt | gtt | cgg | tat | gaa | gac | aca | ggg | gca | tac | 1571 |
| 227 | Ser | Glu | Leu | His | Ile | Ser | Ser | Val | Arg | Tyr | Glu | Asp | Thr | Gly | Ala | Tyr | |
| 228 | 370 | | | | | 375 | | | | | 380 | | | | | | |
| 230 | acc | tgc | att | gcc | aaa | aat | gaa | gtg | ggt | gtg | gat | gaa | gat | atc | tcc | tgc | 1619 |
| 231 | Thr | Cys | Ile | Ala | Lys | Asn | Glu | Val | Gly | Val | Asp | Glu | Asp | Ile | Ser | Ser | |
| 232 | 385 | | | | 390 | | | | | 395 | | | | | | 400 | |
| 234 | ctc | ttc | att | gaa | gac | tca | gct | aga | aag | acc | ctt | gca | aac | atc | ctg | tgg | 1667 |
| 235 | Leu | Phe | Ile | Glu | Asp | Ser | Ala | Arg | Lys | Thr | Leu | Ala | Asn | Ile | Leu | Trp | |
| 236 | | | | 405 | | | | | 410 | | | | | 415 | | | |
| 238 | cga | gag | gaa | ggc | ctc | agc | gtg | gga | aac | atg | ttc | tat | gtc | ttc | tcc | gac | 1715 |
| 239 | Arg | Glu | Glu | Gly | Leu | Ser | Val | Gly | Asn | Met | Phe | Tyr | Val | Phe | Ser | Asp | |
| 240 | | | | 420 | | | | 425 | | | | | 430 | | | | |
| 242 | gac | ggt | atc | atc | gtc | atc | cat | cct | gtg | gac | tgt | gag | atc | cag | agg | cac | 1763 |
| 243 | Asp | Gly | Ile | Ile | Val | Ile | His | Pro | Val | Asp | Cys | Glu | Ile | Gln | Arg | His | |
| 244 | | | 435 | | | | 440 | | | | | 445 | | | | | |
| 246 | ctc | aaa | ccc | acg | gaa | aag | att | ttc | atg | agc | tat | gaa | gaa | atc | tgt | cct | 1811 |
| 247 | Leu | Lys | Pro | Thr | Glu | Lys | Ile | Phe | Met | Ser | Tyr | Glu | Glu | Ile | Cys | Pro | |
| 248 | 450 | | | | | 455 | | | | | 460 | | | | | | |
| 250 | caa | aga | gaa | aaa | aat | gca | acc | cag | ccc | tgc | cag | tgg | gta | tct | gca | gtc | 1859 |
| 251 | Gln | Arg | Glu | Lys | Asn | Ala | Thr | Gln | Pro | Cys | Gln | Trp | Val | Ser | Ala | Val | |
| 252 | 465 | | | | 470 | | | | | 475 | | | | | 480 | | |
| 254 | aat | gtc | cgg | aac | cgg | tac | atc | tat | gtg | gcc | cag | cca | gca | ctg | agc | aga | 1907 |
| 255 | Asn | Val | Arg | Asn | Arg | Tyr | Ile | Tyr | Val | Ala | Gln | Pro | Ala | Leu | Ser | Arg | |
| 256 | | | | 485 | | | | 490 | | | | | | 495 | | | |
| 258 | gtc | ctt | gtg | gtc | gac | atc | caa | gcc | cag | aaa | gtc | cta | cag | tcc | ata | ggt | 1955 |
| 259 | Val | Leu | Val | Val | Asp | Ile | Gln | Ala | Gln | Lys | Val | Leu | Gln | Ser | Ile | Gly | |
| 260 | | | | 500 | | | | 505 | | | | | 510 | | | | |
| 262 | gtg | gac | cct | ctg | ccg | gct | aag | ctg | tcc | tat | gac | aag | tca | cat | gac | caa | 2003 |
| 263 | Val | Asp | Pro | Leu | Pro | Ala | Lys | Leu | Ser | Tyr | Asp | Lys | Ser | His | Asp | Gln | |
| 264 | | | 515 | | | | 520 | | | | 525 | | | | | | |
| 266 | gtg | tgg | gtc | ctg | agc | tgg | ggg | gac | gtg | cac | aag | tcc | cga | cca | agt | ctc | 2051 |
| 267 | Val | Trp | Val | Leu | Ser | Trp | Gly | Asp | Val | His | Lys | Ser | Arg | Pro | Ser | Leu | |
| 268 | 530 | | | | | 535 | | | | | 540 | | | | | | |
| 270 | cag | gtg | atc | aca | gaa | gcc | agc | acc | ggc | cag | agc | cag | cac | ctc | atc | cgc | 2099 |
| 271 | Gln | Val | Ile | Thr | Glu | Ala | Ser | Thr | Gly | Gln | Ser | Gln | His | Leu | Ile | Arg | |
| 272 | 545 | | | | 550 | | | | 555 | | | | | | | 560 | |
| 274 | aca | ccc | ttt | gca | gga | gtg | gat | gat | ttc | ttc | att | ccc | cca | aca | aac | ctc | 2147 |
| 275 | Thr | Pro | Phe | Ala | Gly | Val | Asp | Asp | Phe | Phe | Ile | Pro | Pro | Thr | Asn | Leu | |

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|-----|--|-----|-----|-----|-----|-----|------|
| 276 | | 565 | | 570 | | 575 | |
| 278 | atc atc aac cac atc agg ttt ggc ttc atc ttc aac aag tct gat cct | | | | | | 2195 |
| 279 | Ile Ile Asn His Ile Arg Phe Gly Phe Ile Phe Asn Lys Ser Asp Pro | | | | | | |
| 280 | | 580 | | 585 | | 590 | |
| 282 | gca gtc cac aag gtg gac ctg gaa aca atg atg ccc ctc aag acc atc | | | | | | 2243 |
| 283 | Ala Val His Lys Val Asp Leu Glu Thr Met Met Pro Leu Lys Thr Ile | | | | | | |
| 284 | | 595 | | 600 | | 605 | |
| 286 | ggc ctg cac cac cat ggc tgc gtg ccc cag gcc atg gca cac acc cac | | | | | | 2291 |
| 287 | Gly Leu His His His Gly Cys Val Pro Gln Ala Met Ala His Thr His | | | | | | |
| 288 | | 610 | | 615 | | 620 | |
| 290 | ctg ggc ggc tac ttc ttc atc cag tgc cga cag gac agc ccc gcc tct | | | | | | 2339 |
| 291 | Leu Gly Gly Tyr Phe Phe Ile Gln Cys Arg Gln Asp Ser Pro Ala Ser | | | | | | |
| 292 | 625 | | 630 | | 635 | | 640 |
| 294 | gct gcc cga cag ctg ctc gtt gac agt gtc aca gac tct gtg ctt ggc | | | | | | 2387 |
| 295 | Ala Ala Arg Gln Leu Leu Val Asp Ser Val Thr Asp Ser Val Leu Gly | | | | | | |
| 296 | | 645 | | 650 | | 655 | |
| 298 | ccc aat ggt gat gta aca ggc acc cca cac aca tcc ccc gac ggg cgc | | | | | | 2435 |
| 299 | Pro Asn Gly Asp Val Thr Gly Thr Pro His Thr Ser Pro Asp Gly Arg | | | | | | |
| 300 | | 660 | | 665 | | 670 | |
| 302 | ttc ata gtc agt gct gca gct gac agc ccc tgg ctg cac gtg cag gag | | | | | | 2483 |
| 303 | Phe Ile Val Ser Ala Ala Ala Asp Ser Pro Trp Leu His Val Gln Glu | | | | | | |
| 304 | | 675 | | 680 | | 685 | |
| 306 | atc aca gtg cgg ggc gag atc cag acc ctg tat gac ctg caa ata aac | | | | | | 2531 |
| 307 | Ile Thr Val Arg Gly Glu Ile Gln Thr Leu Tyr Asp Leu Gln Ile Asn | | | | | | |
| 308 | | 690 | | 695 | | 700 | |
| 310 | tcg ggc atc tca gac ttg gcc ttc cag cgc tcc ttc act gaa agc aat | | | | | | 2579 |
| 311 | Ser Gly Ile Ser Asp Leu Ala Phe Gln Arg Ser Phe Thr Glu Ser Asn | | | | | | |
| 312 | 705 | | 710 | | 715 | | 720 |
| 314 | caa tac aac atc tac gcg gct ctg cac acg gag ccg gac ctg ctg ttc | | | | | | 2627 |
| 315 | Gln Tyr Asn Ile Tyr Ala Ala Leu His Thr Glu Pro Asp Leu Leu Phe | | | | | | |
| 316 | | 725 | | 730 | | 735 | |
| 318 | ctg gag ctg tcc acg ggg aag gtg ggc atg ctg aag aac tta aag gag | | | | | | 2675 |
| 319 | Leu Glu Leu Ser Thr Gly Lys Val Gly Met Leu Lys Asn Leu Lys Glu | | | | | | |
| 320 | | 740 | | 745 | | 750 | |
| 322 | cca ccc gca ggg cca gct cag ccc tgg ggg ggt acc cac aga atc atg | | | | | | 2723 |
| 323 | Pro Pro Ala Gly Pro Ala Gln Pro Trp Gly Gly Thr His Arg Ile Met | | | | | | |
| 324 | | 755 | | 760 | | 765 | |
| 326 | agg gac agt ggg ctg ttt gga cag tac ctc ctc aca cca gcc cga gag | | | | | | 2771 |
| 327 | Arg Asp Ser Gly Leu Phe Gly Gln Tyr Leu Leu Thr Pro Ala Arg Glu | | | | | | |
| 328 | | 770 | | 775 | | 780 | |
| 330 | tca ctg ttc ctc atc aat ggg aga caa aac acg ctg cgg tgt gag gtg | | | | | | 2819 |
| 331 | Ser Leu Phe Leu Ile Asn Gly Arg Gln Asn Thr Leu Arg Cys Glu Val | | | | | | |
| 332 | 785 | | 790 | | 795 | | 800 |
| 334 | tca ggt ata aag ggg ggg acc aca gtg gtg tgg gtg ggt gag gta | | | | | | 2864 |
| 335 | Ser Gly Ile Lys Gly Gly Thr Thr Val Val Trp Val Gly Glu Val | | | | | | |
| 336 | | 805 | | 810 | | 815 | |
| 338 | tgaagggccc agagcagagc cctggggccaa ggaacacccc ctagtcctga cactgcagcc | | | | | | 2924 |
| 340 | tcaagcaggt acgctgtaca tttttacaga caaaagcaaa aacctgtact cgctttgtgg | | | | | | 2984 |
| 342 | ttcaacactg gtctccttgc aagtttcccta gtataaggta tgcgctgcta ccaagattgg | | | | | | 3044 |

VERIFICATION SUMMARY

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